ABSTRACT

An object of the present invention is to provide a method for effectively screening a agricultural chemical candidate or drug candidate. Specifically, an object of the present invention as to a agricultural chemical is to effectively screen, without the use of plants, a agricultural chemical candidate compound that does not exert a harmful effect on other organisms such as plants. The present inventors have completed the present invention by successfully developing a screening method comprising transforming, with an expression vector of a filamentous fungus-specific enzyme-encoding gene, a yeast that is biologically closely related to a filamentous fungus but does not have the enzyme, and applying agricultural chemical candidate samples to a control yeast (which does not express a filamentous fungus-specific enzyme) and to the filamentous fungus-specific enzyme-expressing transformant to select, as an agricultural chemical candidate, a agricultural chemical candidate sample that does not exert an effect such as a side effect on the control yeast and exhibits growth inhibitory or fungicidal activity specific only for the filamentous fungus-specific enzyme-expressing transformant. This screening method can also be used in the screening of a drug candidate.